

ABSTRACT OF THE DISCLOSURE

A steering assist apparatus that assists a driver when backing a vehicle in an S-shaped path or parallel parking. The apparatus displays guidance marking on a monitor screen and the driver refers to the guidance marking, which permits the driver to easily back the vehicle to a desired position. The apparatus includes a camera, a monitor, an angle sensor, obstacle sensors, an image processing unit, a controller and a monitor controller. The image processing unit computes the predicted path of the vehicle at the current wheel angle. The monitor shows an image captured by the camera. The image processing unit generates data representing a guidance marking based on the predicted path and superimposes the marking on the monitor screen. The location of the marking on the screen is determined based on the current wheel angle. The marking represents part of the predicted path. Specifically, the marking matches the width of the vehicle. In the monitor screen, a marking is separated from the rear bumper of the vehicle by a distance corresponding to the wheelbase of the vehicle.